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HANDBOOK

OF

Official Grain Standards for Rye

TABULATED AND ABRIDGED DESCRIPTION
OF THE OFFICIAL GRAIN STANDARDS OF
THE UNITED STATES FOR RYE, AS ESTABLISHED AND PROMULGATED BY THE
SECRETARY OF AGRICULTURE,
MARCH 29, 1923, EFFECTIVE JULY 1, 1923

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RYE STANDARDS.

For the purposes of the United States grades for rye:

Rye.—Rye shall be any grain which, before removal of dockage, consists of 50 per cent or more of rye, and when free from dockage contains not more than 10 per cent of cereal grain of a kind or kinds other than rye.

Basis of determinations.—Each determination of dockage, moisture, temperature, odor, onions, garlic, and live weevils or other insects injurious to stored grain shall be upon the basis of the grain including dockage. All other determinations shall be upon the basis of the grain when free from dockage.

Percentages.—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of moisture.—Percentage of moisture in rye shall be that ascertained by the moisture tester and the method of use thereof described in Circular 72, and supplement thereto, issued by the United States Department of Agriculture, Bureau of Plant Industry, or as determined by any device and method giving equivalent results.

Test weight per bushel.—Test weight per bushel shall be the weight per Winchester bushel as determined by the testing apparatus and the method of use thereof described in Bulletin No. 472, dated October 30, 1916, issued by the United States Department of Agriculture,

or as determined by any device and method giving equivalent results.

Note.—Under regulations pursuant to the United States grain standards act, licensed inspectors are required to state under "Remarks" in all certificates issued by them for rye, unless issued for an export shipment, the test weight per bushel in whole pounds and tenths of a pound.

Cereal grains.—Cereal grains shall include wheat, barley, emmer, spelt, einkorn, corn, grain sorghums, oats and rice only, and shall not include nongrain sorghums, buckwheat, flaxseed, and wild oats.

Damaged kernels.—Damaged kernels shall be all grains and pieces of grains of rye and other grains which are heat damaged, sprouted, frosted, badly ground damaged, badly weather damaged, or otherwise distinctly damaged.

Heat-damaged kernels.—Heat-damaged kernels shall be kernels and pieces of kernels of rye and other grains which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Dockage.—Dockage includes sand, dirt, weed seeds, weed stems, chaff, straw, grain other than rye, and any other foreign material, which can be removed readily from the rye by the use of appropriate sieves, cleaning devices, or other practical means suited to separate the foreign material present; also undeveloped, shriveled, and small pieces of rye kernels which are removed in properly separating the foreign material, and which can not be recovered by properly rescreening or recleaning.

The quantity of dockage shall be calculated in terms of percentage based on the total weight of the grain including the dockage. The percentage of dockage so calculated, when equal to 1 percent or more, shall be stated in terms of whole percent, and when less than 1 percent shall not be stated. A fraction of a percent shall be disregarded. The percentage of dockage, so determined and stated, shall be added to the grade designation.

Foreign material other than dockage.—Foreign material other than dockage shall include all matter other than rye, which is not separated from the rye in the proper determination of dockage.

Garlicky rye.—Garlicky rye shall be all rye which has an unmistakable odor of garlic or wild onions or which contains garlic or wild onion bulblets in a quantity equal to one or more bulblets in 1,000 grams of rye.

Garlicky rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not garlicky, and there shall be added to, and made a part of, the grade designation the word "garlicky."

Weevily rye.—Weevily rye shall be all rye which is infested with live weevils or other insects injurious to stored grain.

Weevily rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not weevily, and there shall be added to, and made a part of, the grade designation the word "weevily."

Ergoty rye.—Ergoty rye shall be all rye which, after the removal of dockage, contains ergot in excess of 0.3 per cent.

Ergoty rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not ergoty, and there shall be added to, and made a part of, the grade designation the word "ergoty."

Smutty rye.—Smutty rye shall be any rye which has an unmistakable odor of smut, or which contains spores, balls, or portions of balls, of smut, in excess of a quantity equal to two balls of average size in 50 grams of rye.

Smutty rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not smutty, and there shall be added to, and made a part of, the grade designation the word "smutty."

Grades.—All rye shall be graded and designated No. 1, No. 2, No. 3, No. 4, or sample grade, as the case may be, according to the respective requirements thereof as specified in these standards. (See also table, page 5).

RYE.

Grade requirements for rye, garlicky, weevily, ergoty, and smutty rye.

		Maximum limi							
	Condition.	Minimum test weight per bushel.	Moisture.	Dam- aged kernels.		Foreign material other than dockage.			
Grade.				Total (rye and other grains).	Heat damage (rye and other grains).	Total.	Foreign matter other than wheat.		
1	Shall be cool and of natural	Lbs.	%	%	%	%	%		
2	odorShall be cool and of natural	56	13	2	0.0	3	1		
3	odor	54	14	4	0.0	6	2		
4	odor	52	15	7	0.5	10	4		
**	musty or slightly sour	49	16	15	3.0	10	6		

Sample grade.—Sample grade rye shall be all rye which does not come within any of the grades from Nos. 1 to 4, inclusive, or which has any commercially objectionable foreign odor except of smut, garlic, or wild onions, or is very sour, or is heating, hot, or otherwise of distinctly low quality, or contains small, inseparable stones or cinders.

